

**PAT-NO: JP02002064587A**

**DOCUMENT-IDENTIFIER: JP 2002064587 A**

**TITLE: PROTOCOL TERMINATING DEVICE**

**PUBN-DATE: February 28, 2002**

**INVENTOR-INFORMATION:**

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**APPL-NO: JP2000252443**

**APPL-DATE: August 23, 2000**

**INT-CL (IPC): H04L029/08, H04L012/28 , H04L012/56 , H04L029/06**

**ABSTRACT:**

**PROBLEM TO BE SOLVED:** To provide a protocol terminating device that conducts PPP termination by an ATM switch.

**SOLUTION:** The protocol terminating device is provided with a 1st interface section that receives/sends a cell form PPP(Point-to-Point Protocol) packet from/to a DSLAM(Digital Subscriber Line Access Multiplexer), a 2nd interface section that sends/receives a cell form network layer packet to/from a backbone network, a PPP link means that setups and interrupts a PPP link, a packet

processing means that conducts cell transfer control and encapsulation  
to a PPP  
data packet of a network layer packet and its inverse processing, and a  
switch  
that switches cells among the 1st interface section, the 2nd interface  
section,  
the PPP link means and the packet processing means.

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